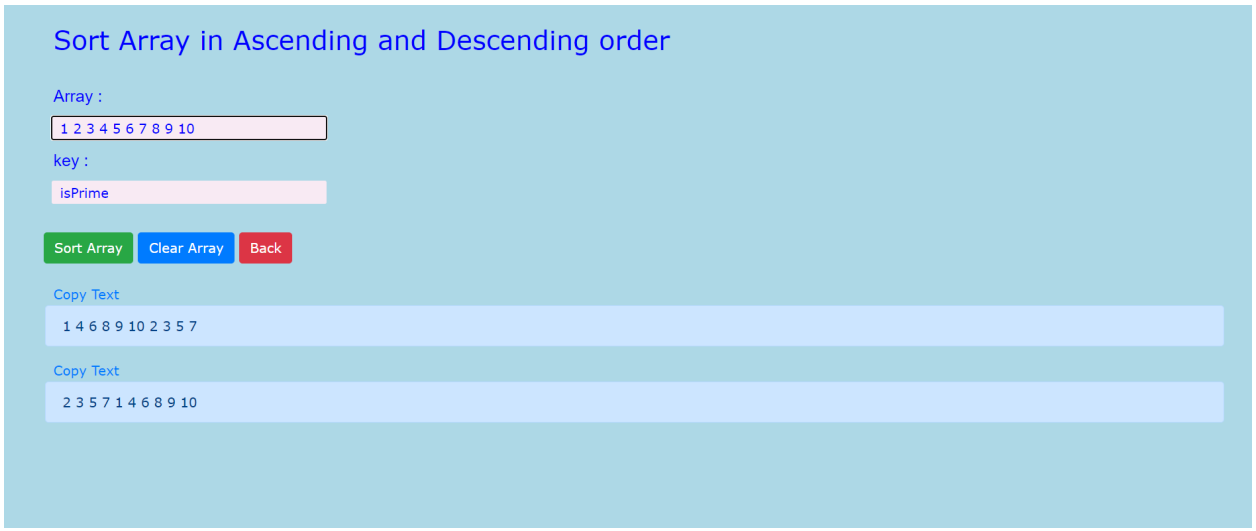
The ascending sort feature is similar to the sort function of python sort(a,key=lambda a:key(a))

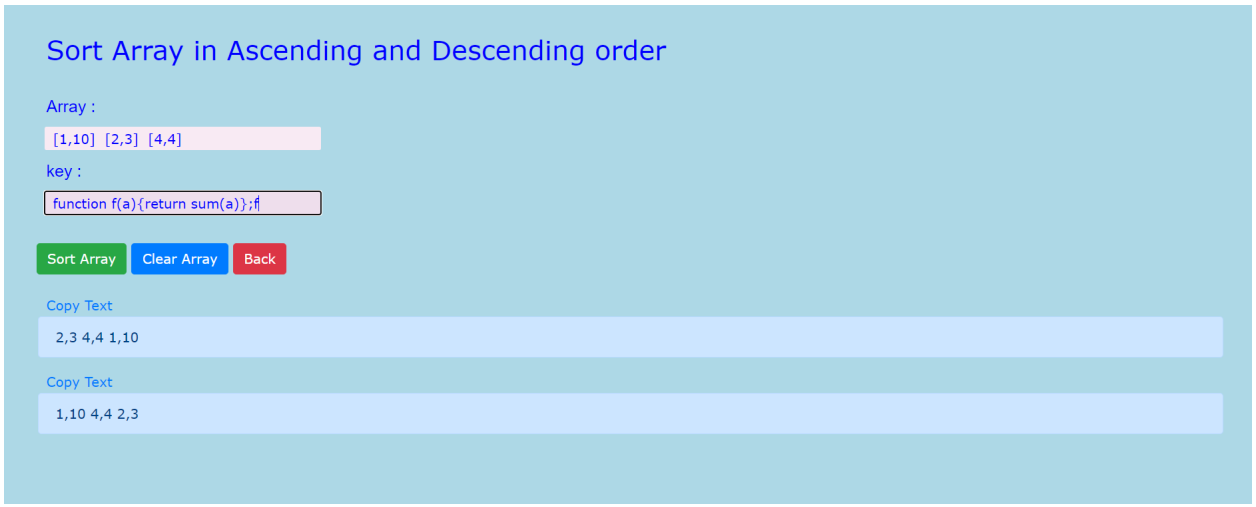
Here we can sort the array according to the key feature.
If nothing is given in key it sorts normally

Note: When the key value is same other elements are sorted according to the inplace sorting

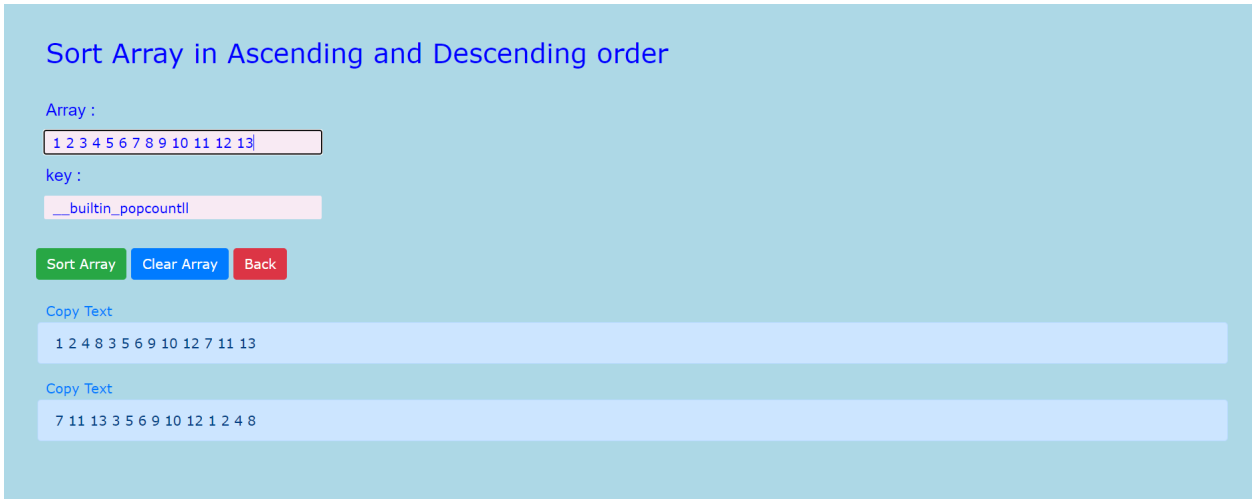
Examples



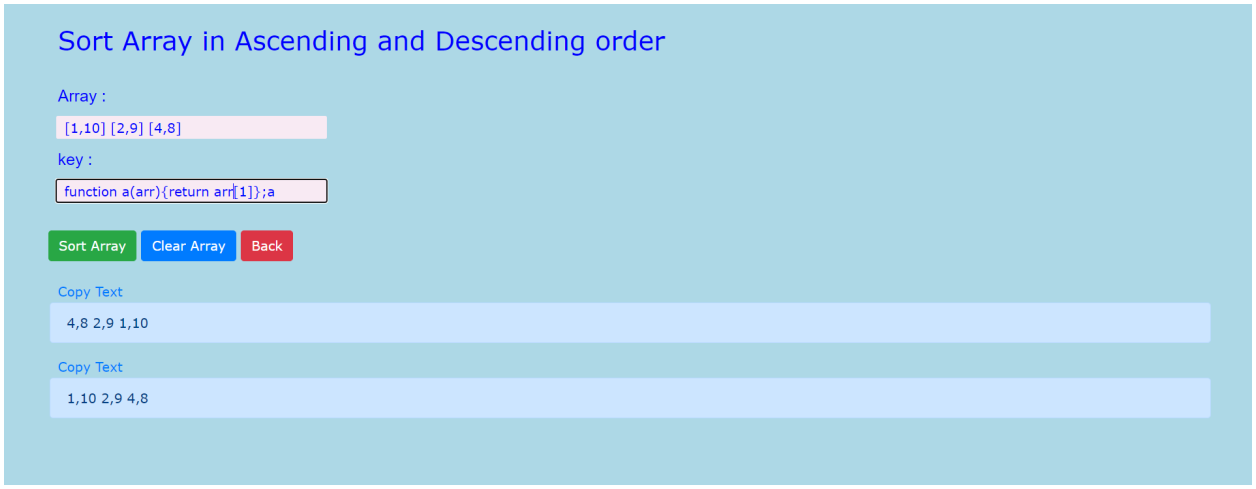
According to the primes
2 3 5 and 7 are primes so in ascending order they are at last and in descending order they are at first



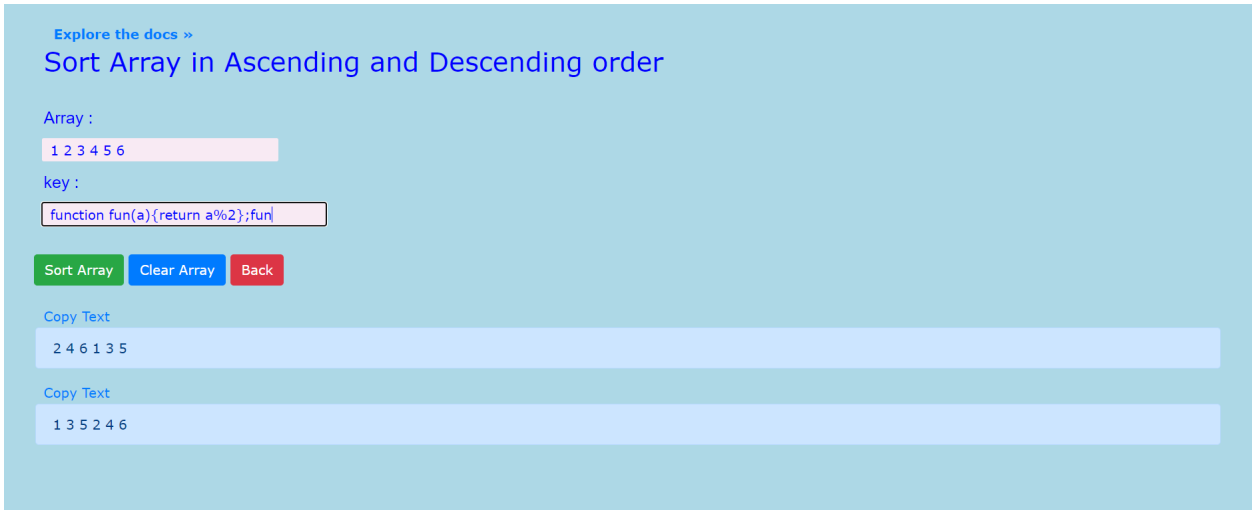
Sorting according to the sum of the array.
Sum of array [1,10] is maximum i.e. 11 so it is at last and sum of array [2,3] is minimum i.e. 2+3=5 so it is at first in ascending order.



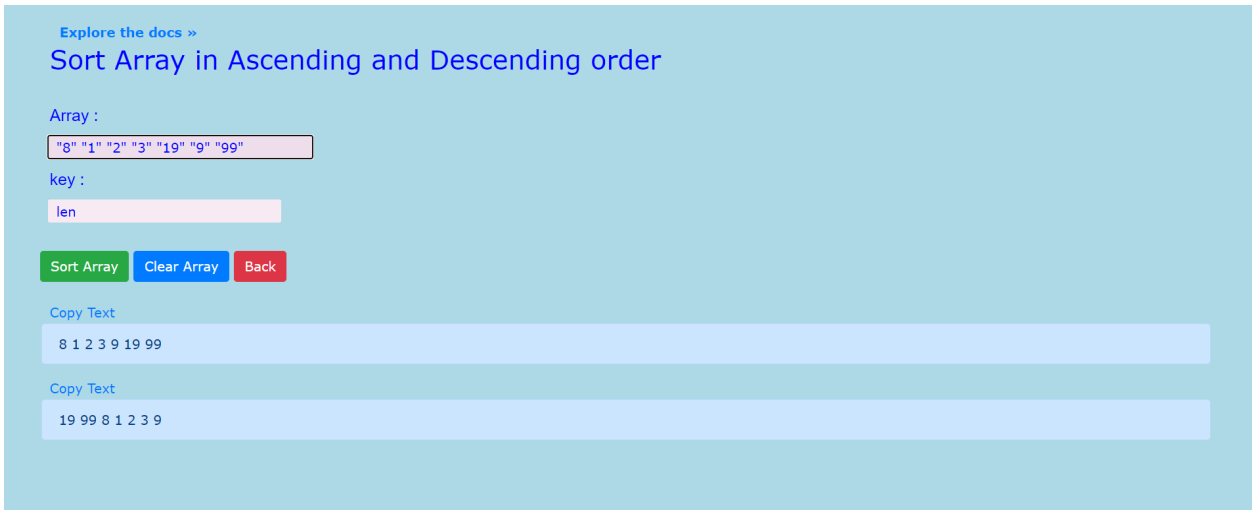
Sorting according to the number of ones in the binary representation of the number.
1 2 4 8 binary are “1” “10” “100” “1000” so the number of ones are minimum so they are at first



Sorting according to the second value of the array.
You can also customize the function as seen here. Simply make a function (javascript) and write its name separated by a semicolon.



Sorting according to the a%2 custom function.



Sorting according to the length.

In the key you can provide the following

1. bit_length
2. len
3. isPrime
4. `__builtin_popcountll`
5. `__builtin_parityll`
6. `__builtin_clzll`
7. `__builtin_ctzll`
8. is_sorted
9. sum
10. mex

And many more…
Other key function can be made using custom javascript functions.